

A

NETWORKING ACRONYMS

AAL	ATM adaptation layer
AARNet	Australian Academic Research Network
ACE	advanced computing environment
ACERLI	Association Française des Centres d'Essais pour les Reseaux Locaux Industriels
ACET	Advisory Committee on Electronics and Telecommunications (of IEC)
ACID	atomicity, consistency, isolation, durability (properties of transaction processing)
ACM	Association for Computing Machinery
ACSE	association-control service element
ACSNET	Australian Computer Science Network
ACTAS	Alliance of Computer-based Telephony Application Suppliers
ADAPSO	Association of Data Processing Service Organizations (superseded by ITAA)
ADCCP	advanced data communication control procedure
ADCU	Association of Data Communications Users
ADDMD	administration directory-management domain (for X.500 directory system)
ADMD	administration (public) management domain (of MHS)
AE	application entity
AEF	address extension facility (of X.25 [1984])
AET	application entity title
AFI	authority and format identifier (of NSAP address)
AFII	Association for Font Information Interchange

AFIPS	American Federation of Information Processing Societies
AFNOR	Association Française de Normalisation
AIA	Aerospace Industries Association
AIAG	Automotive Industry Action Group
AIIM	Association for Information and Image Management
AIS	alarm indication signal (of SONET)
ANS	Advanced Network and Services (Corporation)
ANS	American national standard
ANSI	American National Standards Institute
AOSIP	airline OSI profile
AOWS	Asia–Oceanic (OSI) Workshop
AP	application process
APCC	American Public Communications Council
API	application-program(ming) interface
APIA	Application Programming Interface Association (for X.400)
APP	applications (area of the IETF)
ARGO	A really good OSI
ARP	address-resolution protocol
ARPA	Advanced Research Projects Agency (of the Department of Defense)
AS	autonomous system
ASC	ANSI-accredited standards committee
ASCII	American Standard Code for Information Interchange
ASE	application service element
ASN.1	Abstract Syntax Notation One
ASO	application service object
ASTM	American Society for Testing Materials
ATM	asynchronous transfer mode
BAS	basic activity subset (of the OSI session service)
BCD	binary-coded decimal
BCS	basic combined subset (of the OSI session service)
BDT	Bureau of Telecommunications Development (of the ITU)
BECN	backward explicit congestion notification (of frame relay)
BEITA	Business Equipment and Information Technology Association (U.K.)
BER	basic encoding rules (of ASN.1)

BER	bit error rate
BIAS	Burroughs Integrated Adaptive Routing System
BIND	Berkeley Interactive Name Demon
BISDN	broadband ISDN
BITNET	“Because It’s Time” Network
BNA	Burroughs Network Architecture
BNF	Backus-Naur Form
BOC	Bell Operating Company (22 local telephone companies)
BPS	bits per second
BSD	(University of California at) Berkeley Software Distribution
BSI	British Standards Institute
BSR	(ANSI) Board of Standards Review
BSS	basic synchronized subset (of the OSI session service)
BT	British Telecom
CALS	Computer-aided Acquisition and Logistic Support (of U.S. DOD)
CAT	common authentication technology
CATV	community antenna television
CBEMA	Computer and Business Equipment Manufacturers’ Association
CC	connect confirm (PDU)
CCH	Harmonization Coordination Committee (CEPT)
CCH/SP	Permanent Secretariat of the CCH (CEPT)
CCIA	Computer and Communication Industry Association
CCIR	International Radio Consultative Committee
CCIRN	Coordinating Council on International Research Networks
CCITT	International Telegraph and Telephone Consultative Committee (Comité Consultatif International Télégraphique et Téléphonique)
CCR	commitment, concurrency, and recovery
CCTA	Central Computer and Telecommunications Agency (U.K. treasury department)
CD	carrier detect
CD	committee draft (ISO) (formerly DP)
CDT	credit (field of ISO transport protocol class 4)
CEC	Commission of the European Community
CEN	Comité Européen de Normalisation (European

	Committee for Standardization, Joint European Standards Institution)
CENELEC	Comité Européen de Normalisation Electrique (European Committee for Electrotechnical Standardization)
CEP	connection endpoint
CEPT	Comité Européen des Administrations des Postes et des Télécommunications (European Conference of Postal and Telecommunications Administrations)
CERN	European Center for Nuclear Research
CERT	computer emergency response team
CIGOS	Canadian Interest Group on Open Systems
CIR	committed information rate (of frame relay)
CIX	commercial Internet exchange
CL	connectionless
CLNP	connectionless network protocol (ISO IP)
CLNS	connectionless network service
CLTS	connectionless transport service
CMIP	common management information protocol
CMIS	common management information service
CMISE	common management information service element
CMOT	common management information protocol over TCP/IP
CNET	Centre National d'Etudes des Télécommunications (of the French PTT)
CNMA	Communications Network for Manufacturing Applications (ESPRIT project 955)
CO	central office (telephone)
CO	connection-oriented
CoA	(RARE) Council of Administration
COCOM	Coordinating Committee for Multilateral Export Control
COMSEC	communications security
CONCERT	Communications for North Carolina Education, Research, and Technology
CONS	connection-oriented network service
COS	Corporation for Open Systems (International)
COSINE	Cooperation for Open Systems Interconnection Networking in Europe
COSN	Consortium for School Networking
COST	Cooperation Européene Scientifique et Technique

COTS	connection-oriented transport service
CPE	customer premises equipment
CR	connect request (PDU)
CRC	cyclic redundancy check
CREN	Corporation for Research and Educational Networking (parent of BITNET)
CSA	Canadian Standards Association
C/SCC	Computer/Standards Coordinating Committee (of the IEEE Computer Society)
CSCW	computer-supported cooperative work
CSDN	circuit-switched data network
CSELT	Centro Studi e Laboratori Telecomunicazioni S.p.A. (Italy)
CSMA	carrier sense multiple access
CSMA/CD	carrier sense multiple access with collision detection
CSMC	Communications Services Management Council
CSNET	(U.S.) Computer Science Network
CSPDN	circuit-switched public data network
CSPP	Computer Systems Policy Project
CSTO	[DARPA] Computer Systems Technology Office
CSU	channel service unit
CTIP	Commission on Computing, Telecommunications, and Information Policies (of the ICC)
CTNE	Compañía Telefónica Nacional de España
CTRG	Collaboration Technology Research Group
CWI	Centrum voor Wiskunde en Informatica (the Dutch computer science and mathematics institute)
DA	destination address
DAD	draft addendum (ISO) (now DAM)
DAM	draft amendment (ISO) (formerly DAD)
DAP	directory-access protocol
DAP	document application profile (of ODA)
DARPA	Defense Advanced Research Projects Agency
DARTnet	(U.S.) Department of Defense Advanced Research Testbed Network
DASS	Design Automation Standards Subcommittee (of IEEE)
DBMS	database-management system
DCA	(U.S. Department of) Defense Communications Agency (now DISA)
DCC	data country code

DCE	data circuit-terminating equipment
DCE	distributed computing environment (OSF)
DCEC	(U.S. Department of) Defense Communications Engineering Center
DCS	defined-context set (in presentation)
DDN	Defense Data Network
DDP	distributed data processing
DDS	digital data service
DES	data-encryption standard (FIPS PUB 46 1-15-77)
DESIRE	Directory of European Information Security Standards Requirements
DFN	Deutsches Forschungsnetz (German research network)
DIB	directory information base
DIGI	Deutsche Interessengemeinschaft Internet (German Internet users' group)
DIN	Deutsches Institut für Normung
DIS	draft international standard (ISO)
DISA	(U.S. Department of) Defense Information Systems Agency (formerly DCA)
DISERF	Data Interchange Standards Education and Research Foundation
DISN	(U.S. Department of) Defense Information Systems Network
DISP	draft international standardized profile
DIT	directory information tree
DLCI	data-link connection identifier (of LAP-D)
DME	distributed management environment
DMZ	demilitarized zone
DN	distinguished name (of X.500 directory service)
DNA	Digital Network Architecture (DEC)
DNIC	data network identification code
DNS	domain name system
DOD	(U.S.) Department of Defense
DOE	(U.S.) Department of Energy
DP	draft proposal (ISO) (now CD)
dpANS	draft proposed American national standard
DQDB	distributed queue dual bus (802.6 MAN)
DS	directory service
DS0	digital signal level 0 (64 Kbps)
DS1	digital signal level 1 (1.544 Mbps)
DS3	digital signal level 3 (44.736 Mbps)

DSA	directory system agent
DSAP	destination (link) service access point
DSP	directory system protocol
DSP	domain-specific part (of NSAP address)
DSSSL	Document Style, Semantics, and Specification Language
DSU	digital service unit
DT	data (PDU)
DTAM	document transfer, access, and manipulation
DTE	data terminal equipment
DTI	(U.K.) Department of Trade and Industry
DTR	data terminal ready
DTR	draft technical report (ISO)
DUA	directory user agent
EARN	European Association of Research Networks
EASINet	European Academic Supercomputer Initiative Network
EBCDIC	Extended Binary-coded Decimal Interchange Code
EBONE	European (Internet) Backbone
EC	European Community (or Commission)
ECMA	European Computer Manufacturers' Association
ECSA	Exchange Carriers Standards Association
ECTEL	European Conference of Telecommunications and Electronics Industries
ECU	European currency unit
EDI	Electronic data interchange
EDIA	Electronic Data Interchange Association (supersedes TDCC)
EDICUSA	EDI Council of the United States
EDIF	electronic data interchange format
EDIFACT	electronic data interchange for finance, administration, commerce, and transport
EDIMS	EDI messaging system
EEC	European Economic Community
EEMA	European Electronic Mail Association
EEPG	European Engineering Planning Group
EFT	electronic funds transfer
EFTA	European Free Trade Association
EGP	exterior gateway protocol
EIA	Electronic Industries Association

EIES	ESPRIT Information Exchange System (now ROSE)
EIUF	European ISDN Users' Forum
ELAN	ESPRIT Local Area Network
EMI	electromagnetic interference
EMUG	European MAP/TOP Users' Group
ENS	European Nervous System (ETSI-sponsored backbone project)
ENTELEC	Energy Telecommunications and Electrical Association
EOTC	European Organization for Certification and Testing
ER	error (PDU)
ES	end system
ESF	extended superframe format (24-bit framing for T1)
ESH	end-system hello (PDU of ISO 9542)
ES-IS	end-system to intermediate-system (routing protocol)
ESnet	Energy Sciences Network
ESPRIT	European Strategic Project for Research on Information Technology
ETCO	European Telecommunications Consultancy Organization
ETCOM	European Testing for Certification of Office and Manufacturing Equipment
ETSI	European Telecommunications Standards Institute
EWICS	European Workshop on Industrial Computer Systems
EWOS	European Workshop for Open Systems
FACT	Federation of Automated Coding Technologies
FADU	file access data unit (of FTAM)
FAIS	factory automation interconnection system
FARNET	Federation of American Research Networks
FCC	(U.S.) Federal Communications Commission
FCCSET	Federal Coordinating Council on Science, Engineering, and Technology
FCS	frame-check sequence
FDDI	fiber-distributed data interface
FDT	formal description technique
FECN	forward explicit congestion notification (of frame relay)
FED-STD	federal standard
FEPG	Federal Engineering Planning Group
FIPS	federal information-processing standard
FIPS PUB	federal information-processing standard publication
FIRST	Forum on Incident Response and Security Teams

FIX	Federal Internet Exchange
FNC	Federal Networking Council
FOPG	FNC OSI Planning Group
FOTS	fiber-optic transmission system
FOX	field operational X.500
FR	frame relay
FREDMAIL	Free Educational Electronic Mail (network)
FRF	Frame Relay Forum
FRICC	Federal Research Internet Coordination Committee (superseded by FNC)
FSTG	Functional Standardization Taxonomy Group
FTAM	file transfer, access, and management
FTP	file-transfer protocol (DOD)
FTSC	Federal Telecommunications Standards Committee
FTZ	Fernmeldetechnisches Zentralamt (Deutsche Bundespost)
GAO	(U.S.) Government Accounting Office
GDAP	government document application profile (GOSIP)
GDMI	generic definition of management information
GDMO	guidelines for the generic definition of managed objects
GGP	gateway-to-gateway protocol (Internet)
GNMP	government network-management profile
GOSIP	government OSI profile (United Kingdom and United States)
GSA	General Services Administration
GSLB	Groupe Special Large Bande (CEPT Special Group on Broadband Communications)
GUI	graphical user interface
GUS	guide to the use of standards (SPAG)
HDLC	high-level data-link control
HDTV	high-definition television
HEMS	high-level entity-management system
HEPNET	High-Energy Physics Network
HPCA	High Performance Computing Act (of U.S. Congress)
IA5	International Alphabet 5 (CCITT V.3), (ISO 646)
IAB	Internet Architecture Board (formerly Internet Activities Board)
IAC	International Advisory Committee (of X3)
IANA	Internet Assigned Number Authority

IAPP	(ANSI) Industrial Automation Planning Panel
ICA	International Communications Association
ICC	International Chamber of Commerce
ICI	interexchange carrier interface
ICMP	Internet-control message protocol (ARPA)
ICN	International Cooperating Network
ICOS	International Club for Open Systems
ICP	initial connection protocol (ARPA)
ICST	Institute for Computer Science and Technology (of NIST)
ID	Internet draft
IDCMA	Independent Data Communication Manufacturers' Association
IDI	initial domain identifier (of NSAP address)
IDP	initial domain part (of NSAP address)
IDPR	interdomain policy routing
IDRP	interdomain routing protocol (ISO/IEC 10747)
IEC	interexchange carrier
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
IEEE-USA/ CCIP	IEEE (U.S.A.) Committee on Communications and Information Policy
IEN	Internet engineering note (ARPA)
IEPG	Intercontinental Engineering Planning Group
IES	information exchange system (of ESPRIT)
IESG	Internet Engineering Steering Group
IETF	Internet Engineering Task Force
IFIP	International Federation of Information Processing Societies
IFOBS	International Forum on Open Bibliographic Systems
IFRB	International Frequency Registration Board (of the ITU)
IGES	initial graphics exchange specification (from NIST)
IGOSS	industry and government open systems specification
IGP	interior gateway protocol
IMP	interface message processor
InARP	inverse address-resolution protocol
INCA	integrated network communication architecture
INFOSEC	information systems security
INMARSAT	International Maritime Satellite Organization
INTAP	Interoperability Technology Association for Information Processing (Japan)

INTUG	International Telecommunications Users' Group
IONL	"Internal Organization of the Network Layer" (ISO 8648)
IP	Internet protocol (DOD IP or ISO 8473)
IPC	interprocess communication
IPDU	internetwork protocol data unit
IPI	initial protocol identifier (ISO 9577)
IPM	interpersonal messaging (of MHS)
IPSIT	International Public Sector Information Technology (group)
IPMS	interpersonal message system
IPX	Internet packet-exchange (protocol) (Novell)
IRSG	Internet Research Steering Group
IRTF	Internet Research Task Force
IS	intermediate system
ISDN	integrated services digital network
ISH	intermediate-system hello (PDU of ISO 9542)
ISI	Information Sciences Institute
IS-IS	intermediate system to intermediate system (routing protocol)
ISO	International Organization for Standardization
ISOC	Internet Society
ISO/CS	ISO Central Secretariat
ISODE	ISO Development Environment
ISP	international standardized profile
ISPT	Istituto Superiore Poste e Telecomunicazioni (Italy)
ISSB	Information Systems Standards Board (of X3)
ISSO	Information Systems Security Organization (of the NSA)
ISTE	International Society for Technology in Education
IT	information technology
ITAA	Information Technology Association of America (formerly ADAPSO)
ITAEGS	Information Technology Ad Hoc Experts' Group on Standards
ITAEGT	Information Technology Ad Hoc Experts' Group on Private Telecommunication Networks
ITAR	International Traffic in Arms Regulations
ITCC	Information Technology Consultative Committee (of ANSI)
ITI	Industrial Technology Institute

ITRC	Information Technology Requirements Council
ITS	Institute for Telecommunication Sciences (of NTIA)
ITSB	Image Technology Standards Board (of ANSI)
ITSC	Interregional Telecommunications Standards Conference
ITSEC	Information Technology Security Evaluation Criteria (EC)
ITSTC	Information Technology Steering Committee
ITU	International Telecommunications Union
ITUA	Independent T1 Users' Association
IWU	interworking unit
IXI	international X.25 infrastructure (RARE)
JANET	(U.K.) Joint Academic Network
JBIG	Joint Bilevel Imaging Group
JEMA	Japanese Electric Machinery Association
JIPS	JANET IP Service
JNT	(U.K.) joint network team
JPEG	Joint Photographic Experts' Group
JRAG	(JTC1 TAG) Joint Registration Advisory Group
JTC1	Joint (ISO/IEC) Technical Committee 1
JTM	job transfer and manipulation
KDD	Kokusai Denshin Denwa (Japanese telephone company)
LAN	local area network
LAP	link access procedure
LAP-B	link access procedure-balanced
LAP-D	link access procedure (for ISDN D channel)
LATA	local access and transport area
LCN	logical channel number
LEC	local exchange carrier
LI	length indicator
LLC	logical link control
LLC1	logical link control type 1
LLC2	logical link control type 2
LLSIG	Lower Layer Special Interest Group (of the OSI Implementers' Workshop)
LME	layer-management entity
LSAP	link service access point
LTE	line-terminating entity (of SONET)

LU	logical unit (SNA)
LWSP	logical white space
MAC	medium access control
MAC	multiplexed analog components (EC HDTV)
MAN	metropolitan area network
MAP	manufacturing automation protocol
MASE	message administration service element
MAU	medium attachment unit
MD	message digest 5
MDSE	message delivery service element
MRSE	message retrieval service element
MHS	message-handling system(s)
MIB	management information base
MICR	magnetic ink character recognition
MIL-STD	(U.S.) military standard
MIME	multipurpose Internet mail extensions
MITI	Ministry of International Trade and Industry (Japan)
MMFS	manufacturing message format standard (MAP)
MNP	Microcom Networking Protocol
MOCS	managed-object conformance statement
MOTIS	message-oriented text-interchange system
MPDU	message protocol data unit
MRI	Magnetic Resonance Imaging
MS	message store (of MHS)
MSS	Maritime Satellite Service
MSSE	message submission service element
MTA	message-transfer agent (of MHS)
MTBF	mean time between failures
MTP	message-transfer protocol (of MHS)
MTS	message-transfer system (of MHS)
MTSE	message-transfer service element
MUX	multiplexer
MX	mail exchanger
NAC	Network Applications Consortium
NACHA	National Automated Clearing House Association
NADF	North American Directory Forum
NAK	Negative Acknowledgment
NAMAS	National Measurement Accreditation Service (U.K.)
NAMTUG	North American MAP/TOP Users' Group (part of COS)

NAPLPS	North American Presentation Level Protocol Syntax (for videotex)
NARUC	National Association of Regulatory Utility Commissioners
NASA	(U.S.) National Aeronautics and Space Administration
NASTD	National Association of State Telecommunications Directors
NATA	North American Telecommunications Association
NBS	National Bureau of Standards (now NIST)
NC	network connection
NCC	National Computing Centre Ltd. (U.K.)
NCS	national communications system
NCS	Network Computing System (Apollo)
NCSA	National Center for Supercomputing Applications
NCSL	(NIST) National Computer Systems Laboratory
NCUG	National Centrex Users' Group
NE	network element
NE	network entity
NEMA	National Equipment Manufacturers' Association
NET	European Telecommunication Standard (CEPT)
NFS	network file system (Sun)
NIC	Network Information Center
NIKHEF	Nationaal Instituut voor Kernfysica en Hoge-Energiefysica (Dutch institute for high-energy physics)
NIST	National Institute of Standards and Technology (formerly NBS)
NMF	Network Management Forum (OSI)
NMS	network-management station
NOC	network operations center
NOOP	network OSI operations
NP	(ISO/IEC) new project (formerly NWI)
NPDU	network protocol data unit
NPTN	National Public Telecomputing Network
NREN	National Research and Education Network
NRS	(U.K.) name-registration scheme
NRZI	Non return to Zero Inverted (binary-encoding scheme)
NSA	(U.S.) National Security Agency
NSAP	network service access point
NSEP	National Security Emergency Preparedness (DOD)
NSF	National Science Foundation
NSFnet	National Science Foundation (-sponsored) Network

NSI	NASA Science Internet
NTIA	National Telecommunications and Information Agency
NTSC	National Television System Committee
NUA	Network Users' Association
NVLAP	National Voluntary Laboratory Accreditation Program (NIST)
NWI	new work item (now new project) (ISO)
NYSERNet	New York State Education and Research Network
OAM&P	operations, administration, maintenance, and provisioning
OASIS	Online Access to the Standards Information Service (of ANSI-accredited Standards Committee X3)
OC	optical carrier
ODA	office document architecture
ODETTE	Organization for Data Exchange by Tele-Transmission in Europe
ODIF	office document interchange format
ODP	open distributed processing
OECD	Organization for Economic Cooperation and Development
OFTEL	(U.K.) Office of Telecommunications
OID	object identifier
OIW	(NIST) OSI Implementers' Workshop
OLTP	on-line transaction processing
OMG	object-management group
ONC	Open Network Computing (Apollo/HP)
O/R	originator/recipient (name in MHS)
ORWG	Open Routing Working Group (of IETF)
OS	open system
OS	operating system
OS	operations system
OSE	open systems environment
OSF	Open Software Foundation
OSI	open systems interconnection
OSI	OSI integration (area of the IETF)
OSIE	OSI environment
OSInet	OSI (experimental) Network (sponsored by NIST)
OSITOP	European TOP Users' Group
OSPF	open shortest path first (routing algorithm and protocol)

OSTC	Open Systems Testing Consortium (successor to CTS/WAN)
OSTP	Office of Science and Technology Policy (of the U.S. government)
OTA	Office of Technology Assessment
PAEB	Pan-American EDIFACT Board
PAGODA	Profile Alignment Group for ODA
PCI	protocol-control information
PDAD	proposed draft addendum (ISO) (now PDAM)
PDAM	proposed draft amendment (ISO)
PDAU	physical delivery access unit
PDISP	proposed draft international standardized profile (ISO)
PDN	public data network
PDTR	proposed draft technical report (ISO)
PDU	protocol data unit
PEM	privacy-enhanced mail
PGI	parameter group identifier
PI	protocol identification (PDU)
PICS	protocol implementation conformance statement
PID	protocol identifier
PIP	"P" Internet protocol
PLP	(X.25) packet-level protocol (ISO 8208)
PMD	private management domain
POSI	Promoting Conference for OSI (Japan)
POTS	plain old telephone service
PPP	point-to-point protocol
PRDMD	private directory-management domain (of X.500 directory system)
PRMD	private management domain (of X.400 MHS)
PSAP	presentation service access point
PSC	Public Service Commission
PSDN	packet-switched data network
PSI	Performance Systems International
PSPDN	packet-switched public data network
PSRG	Privacy and Security Research Group (of the IRTF)
PSTN	public switched telephone network
PTE	path-terminating entity (of SONET)
PTK	Peter T. Kirstein (of UCL)
PTNX	private telecommunications network exchange
PTT	postal, telephone, and telegraph (agency)

PUC	public utility commission
PVC	permanent virtual circuit
PVC	polyvinyl chloride
QOS	quality of service
RA	registration authority
RACE	R&D in Advanced Communications Technologies in Europe (CEC)
RARE	Réseaux Associés pour la Recherche Européene
RARP	reverse address-resolution protocol
RBHC	Regional Bell Holding Company
RBOC	Regional Bell Operating Company (7 regional telephone companies)
RDA	remote database access
RDN	relative distinguished name (in X.500 directory service)
REC	RARE Executive Committee
REUNA	Red Universitaria Nacional Chilena (Chilean academic and research network)
RFC	request for comments
RIP	routing information protocol
RIPE	Réseaux IP Européens (literally, "Research IP for Europe")
RISC	reduced instruction set computing
RISE	Retrieval and Interchange of Standards in Europe
RJ	reject (PDU)
RJE	remote job entry
RM	(OSI) reference model
ROER	remote operations error
ROIV	remote operations invoke
RORJ	remote operations reject
RORS	remote operations result
ROS	remote operations service
ROSE	remote operations service element
ROSE	Research on Open Systems for Europe (of ESPRIT)
RPC	remote procedure call
RPOA	recognized private operating agency (CCITT)
RSA	Rivest, Shamir, Adelman (public-key encryption scheme)
RSO	regional standards organization
RTC	RARE technical committee
RTS	reliable transfer service

RTSE	reliable transfer service element
RTT	round-trip time
RWCC	Regional Workshop Coordinating Committee
SA	source address
SACK	selective acknowledgment
SAFENET	Survivable Adaptable Fiber Optic Embedded Network (U.S. Navy)
SAP	service access point
SAR	segmentation and reassembly
SASE	specific application service element
SC	subcommittee (ISO)
SCSI	small computer systems interface
SCTR	system conformance test report
SDE	submission-delivery entity
SDH	synchronous digital hierarchy (SONET in Europe)
SDLC	Synchronous Data Link Control (IBM)
SDO	standards development organization
SDSAF	Switched Digital Services Applications Forum
SEAL	simple and efficient (ATM) adaptation layer (equivalent to AAL5)
SEC	security (area of the IETF)
SECAM	Système Électronique Couleur avec Mémoire (French TV system)
SG	study group (of CCITT)
SGFS	Special Group on Functional Standardization (of ISO/IEC JTC1)
SGML	Standard Generalized Markup Language
SGMP	simple gateway-monitoring protocol
SI	SPDU identifier
SIA	stable implementation agreements (of the OIW)
SIG	special interest group
SIGCOMM	(ACM) Special Interest Group on Data Communications
SIP	SMDS interface protocol
SITA	Society for International Telecommunications for Aeronautics
SLIP	synchronous line Internet protocol
SMAE	system-management application entity
SMC	Secretariat Management Committee (of X3)
SMDS	switched multimegabit data service

SME	Society of Manufacturing Engineers
SMI	structure of management information
SMIS	specific management information service
SMISE	specific management information service element
SMP	simple management protocol (successor to SNMP, now SNMPv 2)
SMS	service-management system (of AIN)
SMTP	simple mail-transfer protocol (RFC 821)
SNA	system network architecture (IBM)
SNAcP	subnetwork access protocol
SNARE	subnetwork address-resolution entity
SNDCP	subnetwork-dependent convergence protocol
SNI	subscriber-network interface
SNICP	subnetwork-independent convergence protocol
SNMP	simple network-management protocol
SNPA	subnetwork point of attachment
SOG-T	Senior Officials' Group for Telecommunications (of CEPT)
SONET	synchronous optical network
SPAG	Standards Promotion and Applications Group
SPARC	Standards Planning and Review Committee (of X3)
SPDL	Standard Page Description Language
SPDU	session protocol data unit
SPE	synchronous payload envelope (of SONET)
SPI	subsequent protocol identifier (ISO 9577)
SQL	Standard Query Language
SSAP	session service access point
SSAP	source (link) service access point
STE	section-terminating equipment (of SONET)
STEP	standard for the exchange of product model data (for EDI)
STM	synchronous transfer mode
STM	synchronous transport module (of SONET)
STS	synchronous transport signal (of SONET)
SVC	switched virtual circuit
SWG	special working group (ISO)
SWIFT	Society for Worldwide International Financial Telecommunications
SWITCH	Swiss Academic Research Network
TA	terminal adapter (in ISDN)

TAC	terminal access controller
TAG	technical advisory group
TC	technical committee
TC	transport connection
TCP	transmission-control protocol
TCSEC	Trusted Computer System Evaluation Criteria (of the U.S. Department of Defense)
TDCC	Transportation Data Coordinating Committee (superseded by EDIA)
TDM	time division multiplexing
TDMA	time division multiple access
TE	terminal equipment
TELNET	Internet virtual terminal protocol
TERC	Technology Education Research Center
TERC	Telecommunications Equipment Remarketing Council
TFTP	trivial file-transfer protocol
TG	task group
THEnet	Texas Higher Education Network
TIP	terminal interface processor
TLI	transport-layer interface
TLMA	telematic access unit
TLV	type-length-value (format for parameter encoding in PDUs)
TMP	test-management protocol
TNIC	transit network identification code
TOP	technical and office protocols
TOS	type of service (routing)
TP	transaction processing
TP	transport protocol
TP0, TP1, etc.	transport protocol (ISO/IEC 8073) class 0, class 1, etc.
TPDU	transport protocol data unit
TPI	transport protocol interface (streams)
TR	(Bellcore) technical reference
TR	technical report (ISO)
TRAC	Technical Recommendation Application Committee (of CEPT)
TS	transport service
TSAP	transport service access point
TTC	Telecommunications Technology Council (of the Japanese Ministry of Posts and Telecommunications)
TTCN	Tree and Tabular Combined Notation

TT-CNMA	Testing Technology for Communications Network for Manufacturing Applications (ESPRIT II project)
TTL	time to live
TWA	two-way alternate (in session)
TWS	two-way simultaneous (in session)
UA	user agent (in MHS)
UAOS	User Alliance for Open Systems
UCL	University College, London
UCS	uniform communications standard
UD	UnitData (PDU)
UDP	user datagram protocol (ARPA)
UI	UNIX International
UI	unnumbered information (frame)
UKRA	U.K. (United Kingdom) registration authority
UL	Underwriters' Laboratories
ULA	upper-layer architecture
ULCC	University of London Computing Centre
ULP	upper-layer process
UNI	user-network interface (of ISDN)
UPS	uninterruptable power supply
UPT	universal personal telecommunications
USITA	United States Independent Telephone Association
USNC	United States National Committee
USO	UNIX software operation
USRA	Universities Space Research Association
USV	user services (area of the IETF)
UTC	universal time coordinate
UUCP	UNIX-to-UNIX copy
VADS	value-added data services
VAN	value-added network
VC	virtual circuit
VCI	virtual channel identifier (of SONET)
VMTP	versatile message transaction protocol
VPI	virtual path identifier (of SONET)
VPN	virtual private network
VT	virtual terminal
VT	virtual tributary (of SONET)
VTP	virtual terminal protocol
WAIS	wide area information service (or server)

WAN	wide area network
WATS	wide area telephone service
WD	working draft
WG	working group
WIN	Wissenschaftsnetz (German scientific network)
WINCS	WWMCCS Intercomputer Network Communication Subsystem
WINDO	Wide Information Network for Data Online (of U.S. Government Printing Office)
WINS	warehouse information network standard
WP	working party (of CCITT study group)
WWW	World Wide Web
WWMCCS	Worldwide Military Command and Control System (DOD)
XALS	extended application-layer structure
XDR	external data representation (Sun)
XID	exchange identification (PDU)
XMH	X mail handler
XNS	Xerox Network Systems
XPG	X.400 Promotion Group
XPG	X/Open Portability Guide
XTP	express transfer protocol

Readers will encounter many more acronyms and abbreviations in this list than the authors dared use in the text. These are provided as a hedge against the inevitable; if you read further about open systems networking, you will eventually encounter all of these acronyms, and many more.